

**Product Name: R-cadherin Rabbit Polyclonal Antibody**  
**Catalog #: AP Rab16975**



## Summary

<b>Production Name</b>	R-cadherin Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	IHC-P,IF-P,IF-F,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	CDH4
<b>Alternative Names</b>	CDH4; Cadherin-4; Retinal cadherin; R-CAD; R-cadherin
<b>Gene ID</b>	1002.0
<b>SwissProt ID</b>	P55283.The antiserum was produced against synthesized peptide derived from human CDH4. AA range:731-780

## Application

<b>Dilution Ratio</b>	IHC-P 1:100-1:300, IF-P/IF-F/ICC/IF 1:200-1:1000, ELISA 1:5000.Not yet tested in other applications.
<b>Molecular Weight</b>	

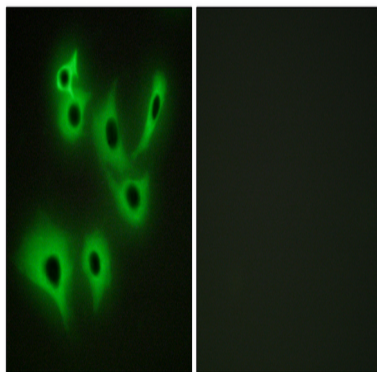
## Background

This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Based on studies in chicken and mouse, this cadherin is thought to play an important role during brain segmentation and neuronal outgrowth. In addition, a role in kidney and muscle development is indicated. Of particular interest are studies showing stable cis-heterodimers of cadherins 2 and 4 in cotransfected cell lines. Previously thought to interact in an exclusively homophilic manner, this is the first evidence of cadherin heterodimerization. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011],function:Cadherins are calcium dependent cell adhesion proteins,function:Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. May play an important role in retinal development.,similarity:Contains 5 cadherin domains.,tissue specificity:Expressed mainly in brain but also found in other tissues.,

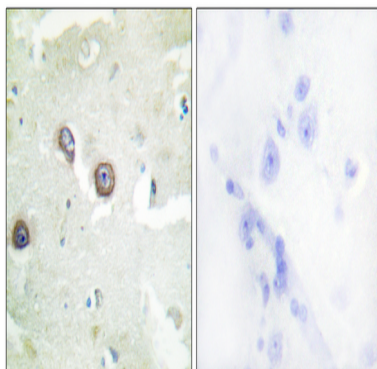
## Research Area

Cell adhesion molecules (CAMs);

## Image Data



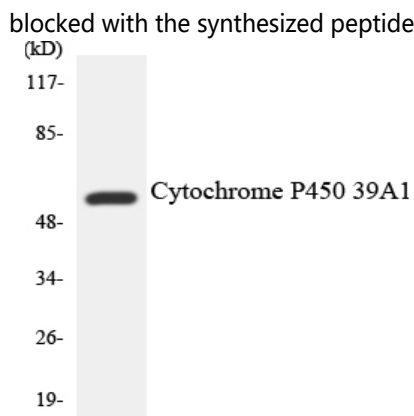
Immunofluorescence analysis of A549 cells, using CDH4 Antibody. The picture on the right is blocked with the synthesized peptide.



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Immunohistochemistry analysis of paraffin-embedded human brain tissue, using CDH4 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using Cytochrome P450 2D6 antibody.

## Note

For research use only.